**Illinois Department of Transportation**
2300 South Dirksen Parkway / Springfield, Illinois / 62764

10/25/2004

SUBJECT: FAI Route 94 & FAP Route 332
Project ACNHI-ACNHF-000S(450)
Section (0203.1 & 0312-708W)
Cook County
Item No. 2X, November 5, 2004 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised pages iii and v of the Table of Contents.
2. Revised page 77 of the Special Provisions.
3. Added pages 245-249 to the Special Provisions.
4. Revised pages 3,7,8,9,10 and 17 of the Schedule of Prices.
5. Revised sheets 4,8,12,13,14A,14B,14C,80-83,262,263,270-274, 367-370,388,652,658,670A,670B and 670C of the Plans.
6. Added sheet 659A to the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Michael L. Hine
Engineer of Design
and Environment

By: Ted B. Walschleger, P. E.
Engineer of Project Management

cc: Diane O'Keefe; N. R. Stoner; Roger Driskell; R. E. Anderson; Jim White; Design & Environment File

TK/cah

Revised 10/25/2004

**RACEWAYS EMBEDDED IN STRUCTURE**
Effective: March 10, 2004

Section 810 of the Standard Specifications for Road and Bridge Construction shall be modified as follows:

Add the following to Article 810.03(c):

"Coilable non-metallic conduit shall be machine straightened to remove the longitudinal curvature caused by coiling the conduit onto reels prior to installing in trench, encasing in concrete or embedding in structure. The straightening shall not deform the cross-section of the conduit such that any two measured outside diameters, each from any location and at any orientation around the longitudinal axis along the conduit differ by more than 6 mm (0.25")." The longitudinal axis of the straightened conduit shall not deviate by more than 20 mm per meter (0.25" per foot) from a straight line.

Section 812 of the Standard Specifications for Road and Bridge Construction shall be modified as follows:

Add the following to Article 812.02:

"(d) Coilable Nonmetallic Conduit….1088.01(c)"

Revised 10/25/2004

**GENERAL ELECTRICAL REQUIREMENTS**

Effective: March 1, 2003

Add the following to Article 801 of the Standard Specifications:

"Maintenance transfer and Preconstruction Inspection:

General. Before performing any excavation, removal, or installation work (electrical or otherwise) at the site, the Contractor shall request a maintenance transfer and preconstruction site inspection, to be held in the presence of the Engineer and a representative of the party or parties responsible for maintenance of any lighting and/or traffic control systems which may be affected by the work. The request for the maintenance transfer and preconstruction inspection shall be made no less than seven (7) calendar days prior to the desired inspection date. The maintenance transfer and preconstruction inspection shall:

Establish the procedures for formal transfer of maintenance responsibility required for the construction period.

Establish the approximate location and operating condition of lighting and/or traffic control systems which may be affected by the work

Marking of Existing Cable Systems. The party responsible for maintenance of any existing lighting and/or traffic control systems at the project site will, at the Contractor's request, mark and/or stake, once per location, all underground cable routes owned or maintained by the State. A project may involve multiple "locations" where separated electrical systems are involved (i.e. different controllers). The markings shall be taken to have a horizontal tolerance of at least 304.8 mm (one (1) foot) to either side.. The request for the cable locations and marking shall be made at the same time the request for the maintenance transfer and preconstruction inspection is made. The Contractor shall exercise extreme caution where existing buried cable runs are involved. The markings of existing systems are made strictly for assistance to the Contractor and this does not relieve the Contractor of responsibility for the repair or replacement of any cable run damaged in the course of his work, as specified elsewhere herein. NOTE THAT THE CONTRACTOR SHALL BE ENTITLED TO ONLY ONE REQUEST FOR LOCATION MARKING OF EXISTING SYSTEMS AND THAT MULTIPLE REQUESTS MAY ONLY BE HONORED AT THE CONTRACTOR'S EXPENSE. NO LOCATES WILL BE MADE AFTER MAINTENANCE IS TRANSFERRED, UNLESS IT IS AT THE CONTRACTOR'S EXPENSE.

Added 10/25/2004

Condition of Existing Systems. The Contractor shall conduct an inventory of all existing electrical system equipment within the project limits, which may be affected by the work, making note of any parts which are found broken or missing, defective or malfunctioning. Megger and load readings shall be taken for all existing circuits which will remain in place or be modified. If a circuit is to be taken out in its entirety, then readings do not have to be taken. The inventory and test data shall be reviewed with and approved by the Engineer and a record of the inventory shall be submitted to the Engineer for the record. Without such a record, all systems transferred to the Contractor for maintenance during construction shall be returned at the end of construction in complete, fully operating condition."

Add the following to Article 801 of the Standard Specifications:

"Electrical material or equipment which are similar or identical shall be the product of the same manufacturer, Electrical materials and equipment shall bear the UL label whenever such labeling is available."

Delete the last paragraph of Article 801.06 of the Standard Specifications.

Revise the 7th and 8th paragraphs of Article 801.08 of the Standard Specifications to read:

"Engineer's Stamp. After the Engineer reviews the submittals for conformance with the design concept of the project, the Engineer will stamp the drawings indicating their status as 'Approved', 'Approved-As-Noted', 'Disapproved', or 'Information Only'. Since the Engineer's review is for conformance with the design concept only, it is the Contractor's responsibility to coordinate the various items into a working system as specified. The Contractor shall not be relieved from responsibility for errors or omissions in the shop, working, layout drawings, or other documents by the Department's approval thereof. The Contractor must still be in full compliance with contract and specification requirements.

Resubmittals. All submitted items reviewed and marked 'APPROVED AS NOTED', or 'DISAPPROVED' are to be resubmitted in their entirety with a disposition of previous comments to verify contract compliance at no additional cost to the state unless otherwise indicated within the submittal comments."

Added 10/25/2004

Revise Article 801.12 of the Standard Specifications to read:

"Lighting Operation and Maintenance Responsibility. The scope of work shall include the assumption of responsibility for the continuing operation and maintenance the of existing, proposed, temporary, sign and navigation lighting, or other lighting systems and all appurtenances affected by the work as specified elsewhere herein."

Add the following to Section 801.12 of the Standard Specifications:

"Energy and Demand Charges. The payment of basic energy and demand charges by the electric utility for existing lighting which remains in service will continue as a responsibility of the Owner, unless otherwise indicated. Unless otherwise indicated or required by the Engineer duplicate lighting systems (such as temporary lighting and proposed new lighting) shall not be operated simultaneously at the Owner's expense and lighting systems shall not be kept in operation during long daytime periods at the Owner's expense. Upon written authorization from the Engineer to place a proposed new lighting system in service, whether the system has passed final acceptance or not, (such as to allow temporary lighting to be removed), the Owner will accept responsibility for energy and demand charges for such lighting, effective the date of authorization. All other energy and demand payments to the utility shall be the responsibility of the Contractor until final acceptance."

Add the following to Section 801 of the Standard Specifications:

"Splicing of Lighting cables. Splices above grade, such as in poles and junction boxes, shall have a waterproof sealant and a heat-shrinkable plastic cap. The cap shall be of a size suitable for the splice and shall have a factory-applied sealant within. Additional seal of the splice shall be assured by the application of sealant tape or the use of a sealant insert prior to the installation of the cap. Either method shall be assured compatible with the cap sealant. Tape sealant shall be applied in not less than one half-lapped layer for a length at least 6.35 mm (1/4-inch) longer than the cap length and the tape shall also be wrapped into the crotch of the splice. Insert sealant shall be placed between the wires of the splice and shall be positioned to line up flush or extend slightly past the open base of the cap.

Added 10/25/2004

Lighting Cable Identification. Each wire installed shall be identified with its complete circuit number at each termination, splice, junction box or other location where the wire is accessible.

Lighting Cable Fuse Installation. Standard fuse holders shall be used on non-frangible (non-breakaway) light pole installations and quick-disconnect fuse holders shall be used on frangible (breakaway) light pole installations. Wires shall be carefully stripped only as far as needed for connection to the device. Over-stripping shall be avoided. An oxide inhibiting lubricant shall be applied to the wire for minimum connection resistance before the terminals are crimped-on. Crimping shall be performed in accordance with the fuse holder manufacturer's recommendations. The exposed metal connecting portion of the assembly shall be taped with two half-lapped wraps of electrical tape and then covered by the specified insulating boot. The fuse holder shall be installed such that the fuse side is connected to the pole wire (load side) and the receptacle side of the holder is connected to the line side.

Grounding of Lighting Systems. All electrical systems, equipment and appurtenances shall be properly grounded in strict conformance with the NEC, even though every detail of the requirements is not specified or shown. Good ground continuity throughout the electrical system shall be assured. All electrical circuit runs shall have a continuous equipment grounding conductor. IN NO CASE SHALL THE EARTH BE CONSIDERED AS AN ADEQUATE EQUIPMENT GROUNDING PATH. Where connections are made to painted surfaces, the paint shall be scraped to fully expose metal at the connection point and serrated connectors or washers shall be used. Where metallic conduit is utilized as the equipment grounding conductor, extreme care shall be exercised to assure continuity at joints and termination points. No wiring run shall be installed without a suitable equipment ground conductor. Where no equipment ground conductor is provided for in the plans and associated specified pay item, the Contractor is obligated to bring the case to the attention of the Engineer who will direct the Contractor accordingly. Work which is extra to the contract will be paid extra. All connections to ground rods, structural steel, or fencing shall be made with exothermic welds. Connections made to reinforcing steel shall be made by a mechanical connection. Where such connections are made to insulated conductors, the connection shall be wrapped with at least 4 layers of electrical tape extended 152.4 mm (six inches) onto the conductor insulation. Where a ground field of "made" electrodes is provided, the exact locations of the rods shall be documented by dimensioned drawings as part of the Record Drawings. Equipment ground wires shall be bonded, using a splice and pigtail connection, to all boxes and other metallic enclosures throughout the wiring system.

Lighting Unit Identification. Each pole, light tower and underpass light shall be labeled as indicated in the plans to correspond to actual circuiting, and as designated by the Engineer. They shall be installed by the Contractor on each lighting unit pole shaft and on the underpass walls, or piers, as shown in the details. Median-mounted poles shall have two sets of identification labeling oriented to allow visibility from travel in either direction. Lighting Controllers shall also be identified by means identification decals as described herein. Identification shall be in place prior to placing the equipment in service. Identification of weathering steel poles shall be made by application of letters and numerals as specified herein to an appropriately sized 3.175 mm (1/8-inch) thick stainless steel plate which shall be banded to the pole with two stainless steel bands. Identification of painted poles shall be made by application of letters and numerals as specified herein via an adhesive approved by the paint manufacturer for the application. Identification of luminaires which are not pole mounted, such as underpass luminaires, shall be done using identification brackets. In general, the brackets shall be mounted adjacent to and within one foot of their respective luminaires. The brackets shall be fabricated from 3.175 mm (one-eighth (1/8)) inch aluminum alloy sheet according to the dimensions shown on the plans. The bracket shall be bent so as to present the luminaire identification numbers at a sixty (60) degree angle to the wall. The bracket shall be attached to concrete walls with three (3) 6.35 mm (1/4 inch), self drilling, snap-off type galvanized steel concrete anchors set flush with the wall, or power driven fasteners approved by the Engineer. The brackets shall be offset from the wall with 12.7 mm (1/2") aluminum bushings. The structural steel shall not be drilled to attach the brackets. The luminaire identification numbers shall be applied to the bracket using the method described for identification applied to poles.

Added 10/25/2004

**ILLINOIS DEPARTMENT OF TRANSPORTATION**
**SCHEDULE OF PRICES**
**CONTRACT NUMBER - 62107**

**State Job # -** C-91-013-01
**PPS NBR -** 1-73514-0300
**County Name -** COOK- -
**Code -** 31 - -
**District -** 1 - -
**Section Number -** (0203.1 & 0312-708W)

**Project Number**
ACNHI-ACNHF-000S/450/000

**Route**
FAI 94
FAP 332

| Item Number | Pay Item Description | Unit of Measure | Quantity | x | Unit Price | = | Total Price |
|---|---|---|---|---|---|---|---|
| MX033276 | TEMP SOIL RETEN SYSTM | SQ M | 351.000 | | | | |
| MX033290 | SED CONT SILT FENCE | METER | 1,942.000 | | | | |
| MX033291 | SED CON SILT FEN MAIN | METER | 971.000 | | | | |
| MX033295 | REMOV EXISTING RIPRAP | SQ M | 26.000 | | | | |
| MX033383 | COIL NM EN RC 100 2X1 | METER | 40.100 | | | | |
| * DELETED | | | | | | | |
| MX033400 | CON ATS 100 RGS PVC | METER | 813.100 | | | | |
| MX033402 | CON T 100 RGS | METER | 226.100 | | | | |
| MX033407 | CON EMB STR 50 CNC | METER | 968.000 | | | | |
| MX033493 | TEMP SOIL RET SYS RIP | SQ M | 1,462.000 | | | | |
| MX033521 | COIL NM EN RC 100 1X1 | METER | 46.000 | | | | |
| MX355150 | BIT BC SUPER 150 | SQ M | 256.000 | | | | |
| MX355200 | BIT BC SUPER 200 | SQ M | 1,066.000 | | | | |
| MX406012 | BC SC SUPER "C" N50 | M TON | 146.000 | | | | |
| MX406022 | BC SC SUPER "D" N50 | M TON | 14.000 | | | | |
| | | * REVISED : OCTOBER 19, 2004 | | | | | |

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|---|---|---|---|---|---|---|---|---|
| | M2820100 | FILTER FAB FOR RIPRAP | SQ M | 450.000 | | | | |
| | M3111150 | SUB GRAN MAT B 150 | SQ M | 94.000 | | | | |
| | M3111300 | SUB GRAN MAT B 300 | SQ M | 86,002.000 | | | | |
| | M3112010 | SUB GRAN MAT C | M TON | 526.000 | | | | |
| | M3120100 | STAB SUB-BASE 100 | SQ M | 14,437.000 | | | | |
| | M3120150 | STAB SUB-BASE 150 | SQ M | 71,393.000 | | | | |
| | M4060200 | BIT MATLS PR CT | M TON | 17.000 | | | | |
| | M4060895 | CONSTRUC TEST STRIP | EACH | 2.000 | | | | |
| | M4202285 | PCC PVT 280 JOINTED | SQ M | 8,102.000 | | | | |
| | M4205050 | BR APPROACH PAVT SPL | SQ M | 2,320.000 | | | | |
| * | M4205200 | PROTECTIVE COAT | SQ M | 10,035.000 | | | | |
| | M4210360 | CON REINF PCC PVT 360 | SQ M | 48,806.000 | | | | |
| | M4214360 | PVT REINFORCEMENT 360 | SQ M | 48,806.000 | | | | |
| | M4217078 | LUG SYSTEM COMP 7.8 | EACH | 1.000 | | | | |
| | M4217108 | LUG SYSTEM COMP 10.8 | EACH | 1.000 | | | | |
| | M4217144 | LUG SYSTEM COMP 14.4 | EACH | 1.000 | | | | |
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|---|---|---|---|---|---|---|---|
| M4217150 | LUG SYSTEM COMP 15.0 | EACH | 1.000 | | | | |
| * M4218000 | PROTECTIVE COAT | SQ M | 48,806.000 | | | | |
| M4240125 | PC CONC SIDEWALK 125 | SQ M | 19.500 | | | | |
| M4400045 | BIT SURF REM 45 | SQ M | 1,244.000 | | | | |
| M4402000 | PAVEMENT REM | SQ M | 66,033.000 | | | | |
| M4402010 | DRIVE PAVEMENT REM | SQ M | 2,122.000 | | | | |
| M4402030 | GUTTER REM | METER | 2,602.000 | | | | |
| M4402040 | COMB CURB GUTTER REM | METER | 2,367.000 | | | | |
| M4402050 | SIDEWALK REM | SQ M | 33.000 | | | | |
| M4402060 | APPROACH SLAB REM | SQ M | 296.000 | | | | |
| M4402280 | CONC BARRIER REMOV | METER | 76.000 | | | | |
| M4402530 | PAVED SHLD REMOVAL | SQ M | 19,948.000 | | | | |
| M4402540 | PAVT BREAKING | SQ M | 4,362.000 | | | | |
| M4405000 | PAVED DITCH REMOVAL | METER | 100.000 | | | | |
| M4812200 | AGGREGATE SHLDS B 200 | SQ M | 897.000 | | | | |
| M4812280 | AGGREGATE SHLDS B 280 | SQ M | 415.000 | | | | |
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|---|---|---|---|---|---|---|---|
| M4812360 | AGGREGATE SHLDS B 360 | SQ M | 1,013.000 | | | | |
| M4830150 | PCC SHOULDERS 150 | SQ M | 1,282.000 | | | | |
| M4830280 | PCC SHOULDERS 280 | SQ M | 4,880.000 | | | | |
| M4830360 | PCC SHOULDERS 360 | SQ M | 17,862.000 | | | | |
| * M4832000 | PROTECTIVE COAT | SQ M | 24,024.000 | | | | |
| M5010522 | PIPE CULVERT REMOV | METER | 299.000 | | | | |
| M5020100 | STRUCTURE EXCAVATION | CU M | 11,244.000 | | | | |
| M5030105 | NEOPRENE EXPAN JT 50 | METER | 49.300 | | | | |
| M5030115 | NEOPRENE EXPAN JT 65 | METER | 45.000 | | | | |
| M5030350 | CONC STRUCT | CU M | 4,192.100 | | | | |
| M5030360 | CONC SUP-STR | CU M | 1,482.800 | | | | |
| M5030380 | RUSTICATION FINISH | SQ M | 1,637.000 | | | | |
| M5030390 | BR DECK GROOVING | SQ M | 4,975.000 | | | | |
| M5030450 | PROTECTIVE COAT | SQ M | 6,067.000 | | | | |
| M5041219 | F&E P P CON I-BM 1219 | METER | 1,840.000 | | | | |
| M5050305 | ERECT STRUCT STEEL | L SUM | 1.000 | | | | |
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|---|---|---|---|---|---|---|---|
| M5050405 | F & E STRUCT STEEL | KG | 2,511.000 | | | | |
| M5080105 | REINFORCEMENT BARS | KG | 16,170.000 | | | | |
| M5080205 | REINF BARS, EPOXY CTD | KG | 585,026.000 | | | | |
| M5110100 | SLOPE WALL 100 | SQ M | 2,887.000 | | | | |
| M5120100 | F MET PILE SHELL 305 | METER | 624.000 | | | | |
| M5120160 | F STL PILE HP310X79 | METER | 9,058.200 | | | | |
| M5120180 | F STL PILE HP360X108 | METER | 22,755.500 | | | | |
| * M5120315 | DRIVE STL PILE | METER | 31,814.000 | | | | |
| * M5120340 | DRIV & FILLING SHELLS | METER | 624.000 | | | | |
| M5120460 | TEST PIL ST HP310X79 | EACH | 18.000 | | | | |
| M5120480 | TEST PIL ST HP360X108 | EACH | 6.000 | | | | |
| M5120900 | TEMP SHT PILING | SQ M | 473.000 | | | | |
| M5403000 | CONC BOX CUL | CU M | 151.100 | | | | |
| M542C212 | RCP TEE 300P 300R | EACH | 1.000 | | | | |
| M542C220 | RCP TEE 450P 300R | EACH | 6.000 | | | | |
| M542C224 | RCP TEE 525P 300R | EACH | 10.000 | | | | |
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|---|---|---|---|---|---|---|---|
| M7031000 | WORK ZONE PAVT MK REM | SQ M | 2,356.300 | | | | |
| M7040100 | TEMP CONC BARRIER | METER | 2,278.350 | | | | |
| M7040210 | REL TEMP CONC BAR SPL | METER | 3,317.000 | | | | |
| M7200200 | SIGN PANEL T2 | SQ M | 3.000 | | | | |
| M7200300 | SIGN PANEL T3 | SQ M | 290.000 | | | | |
| M7240330 | REMOV SIGN PANEL T3 | SQ M | 75.000 | | | | |
| M7240730 | RELOC SIGN PANEL T3 | SQ M | 32.000 | | | | |
| M7300100 | WOOD SIN SUPPORT | METER | 33.000 | | | | |
| * M7330010 | OVHD SIN STR-SPAN T1A | METER | 84.000 | | | | |
| * M7330020 | OVHD SIN STR-SPAN T2A | METER | 57.000 | | | | |
| M7330235 | OSS CAN 2CA 0.90X1.68 | METER | 9.000 | | | | |
| M7330400 | OVHD SIN STR BR MT | METER | 5.000 | | | | |
| M7330500 | OVHD SIN STR WALKWAY | METER | 96.000 | | | | |
| * M7340200 | DRILL SHAFT CONC FDN | CU M | 101.000 | | | | |
| M7800105 | THPL PVT MK LINE 100 | METER | 1,931.000 | | | | |
| M7800405 | PREF PL PM TB LN 100 | METER | 3,373.000 | | | | |
| | | * REVISED : OCTOBER 19, 2004 | | | | | |